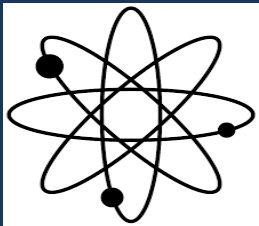




Department of
**Environment &
Conservation**

Division of Radiological Health (DRH)



Incident Response System

Radiological Disaster

- September 1987
- Teletherapy Machine
- Cs-137
- 4 died
- 28 others suffered radiation burns
- 7 residences demolished

The Radiological Accident in Goiânia



Radiological Response Procedures



- **DRH Complaint /Allegation/Incident (CAI) Procedures**

Division contacts (logging in incident, contact NRC)

Assign incident file number (unique number for each incident)

Incident form (one filled out for each incident)

Incident File turnaround times (keeping the process going)

- **Emergency Response Standard Operating Procedures**

Fixed (nuclear power plants, Oak Ridge reservation, other)

Non-fixed (vehicle accident, dirty bomb, stolen source)

Contacts (DRH, FEMA, TVA, TEMA, other feds/states)

Responder roles (operations centers / field monitoring teams / dose assessment)

Radiation Alarms and Allegations

- Citizen or business calls to our offices
- Notifications from the Nuclear Regulatory Commission (NRC)
- Notifications from Tennessee Emergency management (TEMA)



Calls are generally routed through our 24 hour duty officer.

Response Process

- **Information** (who, what, when, where, why)
- **Documentation** (incident form, DOT Special Permit)
- **Investigation**
- **Assessment**
- **Resolution**
- **File closure**



Documentation - Incident Form

- **Description of the complaint / allegation / incident**
- **Contact information**
- **Is a Department of Transportation (DOT) Special Permit involved ?**
- **Is this occurrence reportable to the Nuclear regulatory Commission ?**
- **Is there media attention?**
- **Are other state / Federal agencies involved ?**



Special Permits issued by State Radiation Authorities

Unidentified radioactive material not greater than 50 milli-rem per hour vehicle exterior

- **DOT SP 10656** **Metal Scrap**

Scrap metal facilities

Iron, Steel, Aluminum Foundries

- **DOT SP 11406** **Liquid or solid waste**

Landfills

Investigation

- Safely access the incident site, exercise situational awareness, recognize other hazards
- Radiation detection/measuring/ identification instrumentation
- Control / reduce spread of contamination
- Collect samples of radioactive material if possible / needed
- Dose reconstruction if necessary.
- Evaluate security concerns regarding the radioactive material



Karen Haas

Assessment

- False Alarm ?
- Radio-isotope(s) Identified
- Exempt, unregulated, orphaned source, etc.
- Disposal required ?
- Responsible party



Resolution

- If exempt are there qualifications?
- Disposal as radioactive material
- Transfer to another entity (licensee, manufacturer, military)



Incident Closure

- **Complete Division incident form**
- **File all pertinent incident documentation**
- **Complete DOT Special Permit when applicable**
(Identification / disposition of radioactive material)

- **Indicate**



in incident file